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1: Callens N, Ciczora Y, Bartosch B, Vu-Dac N, Cosset FL, Pawlotsky JM, Penin F, Dubuisson J. Related Articles, Links

Basic residues in hypervariable region 1 of hepatitis C virus envelope glycoprotein e2 contribute to virus entry.
J Virol. 2005 Dec;79(24):15331-41.
PMID: 16306604 [PubMed - in process]

2: Alfonso V, Mbayed VA, Sookoian S, Campos RH. Related Articles, Links

Intra-host evolutionary dynamics of hepatitis C virus E2 in treated patients.
J Gen Virol. 2005 Oct;86(Pt 10):2781-6.
PMID: 16186232 [PubMed - in process]

3: Lee WM, Polson JE, Carney DS, Sahin B, Gale M Jr. Related Articles, Links

Reemergence of hepatitis C virus after 8.5 years in a patient with hypogammaglobulinemia: evidence for an occult viral reservoir.
J Infect Dis. 2005 Sep 15;192(6):1088-92. Epub 2005 Aug 10.
PMID: 16107964 [PubMed - indexed for MEDLINE]

4: Owsianka A, Tarr AW, Juttla VS, Lavillette D, Bartosch B, Cosset FL, Ball JK, Patel AH. Related Articles, Links

Monoclonal antibody AP33 defines a broadly neutralizing epitope on the hepatitis C virus E2 envelope glycoprotein.
J Virol. 2005 Sep;79(17):11095-104.
PMID: 16103160 [PubMed - indexed for MEDLINE]

5: Lin S, Arcangel P, Medina-Selby A, Coit D, Ng P, Nguyen S, McCoin C, Gyenes A, Hu C, Tandeske L, Phelps B, Chien D. Related Articles, Links

Design of novel conformational and genotype-specific antigens for improving sensitivity of immunoassays for hepatitis C virus-specific antibodies.
J Clin Microbiol. 2005 Aug;43(8):3917-24.
PMID: 16081931 [PubMed - indexed for MEDLINE]

6: Kmieciak D, Biernacka-Lukanty J, Migdalski P, Turek-Plewa J, Wierzbicki A, Juszczyk J, Trzeciak WH. Related Articles, Links

A correlation between the heterogeneity of hypervariable region 1 of E2 glycoprotein of Hepatitis C virus (HCV) and HCV antibody profile: a case study.
Acta Virol. 2005;49(2):97-103.
PMID: 16047736 [PubMed - indexed for MEDLINE]

7: Zehender G, De Maddalena C, Bernini F, Ebranati E, Monti G, Pioltelli P, Galli M. Related Articles, Links

Compartmentalization of hepatitis C virus quasispecies in blood mononuclear

cells of patients with mixed cryoglobulinemic syndrome.
J Virol. 2005 Jul;79(14):9145-56.
PMID: 15994809 [PubMed - indexed for MEDLINE]

8: Bartosch B, Verney G, Dreux M, Donot P, Morice Y, Penin F, Pawlotsky JM, Lavillette D, Cosset FL. Related Articles, Links

An interplay between hypervariable region 1 of the hepatitis C virus E2 glycoprotein, the scavenger receptor BI, and high-density lipoprotein promotes both enhancement of infection and protection against neutralizing antibodies.
J Virol. 2005 Jul;79(13):8217-29.
PMID: 15956567 [PubMed - indexed for MEDLINE]

9: Chen S, Wang YM. Related Articles, Links

Multigene tracking of quasispecies in viral persistence and clearance of hepatitis C virus.
World J Gastroenterol. 2005 May 21;11(19):2874-84.
PMID: 15902722 [PubMed - indexed for MEDLINE]

10: Polyak SJ, Sullivan DG, Austin MA, Dai JY, Shuhart MC, Lindsay KL, Bonkovsky HL, Di Bisceglie AM, Lee WM, Morishima C, Gretch DR; HALT-C Trial Group. Related Articles, Links

Comparison of amplification enzymes for Hepatitis C Virus quasispecies analysis.
Virol J. 2005 Apr 22;2:41.
PMID: 15847697 [PubMed - in process]

11: Rigolet A, Cacoub P, Schnuriger A, Vallat L, Cahour A, Ghillani P, Davi F, Benhamou Y, Piette JC, Thibault V. Related Articles, Links

Genetic heterogeneity of the hypervariable region I of Hepatitis C virus and lymphoproliferative disorders.
Leukemia. 2005 Jun;19(6):1070-6.
PMID: 15843828 [PubMed - indexed for MEDLINE]

12: Genovese D, Dettori S, Argentini C, Villano U, Chionne P, Angelico M, Rapicetta M. Related Articles, Links

Molecular epidemiology of hepatitis C virus genotype 4 isolates in Egypt and analysis of the variability of envelope proteins E1 and E2 in patients with chronic hepatitis.
J Clin Microbiol. 2005 Apr;43(4):1902-9.
PMID: 15815016 [PubMed - indexed for MEDLINE]

13: Chambers TJ, Fan X, Droll DA, Hembrador E, Slater T, Nickells MW, Dustin LB, Dibisceglie AM. Related Articles, Links

Quasispecies heterogeneity within the E1/E2 region as a pretreatment variable during pegylated interferon therapy of chronic hepatitis C virus infection.
J Virol. 2005 Mar;79(5):3071-83.
PMID: 15709027 [PubMed - indexed for MEDLINE]

14: Hu YW, Rocheleau L, Larke B, Chui L, Lee B, Ma M, Liu S, Omlin T, Pelchat M, Brown EG. Related Articles, Links

Immunoglobulin mimicry by Hepatitis C Virus envelope protein E2.
Virology. 2005 Feb 20;332(2):538-49.
PMID: 15680419 [PubMed - indexed for MEDLINE]

15: Higashi K, Tsukiyama-Kohara K, Tanaka T, Tanaka E, Kiyosawa K, Kohara M. Related Articles, Links

Characterization of hypervariable region in hepatitis C virus envelope protein

during acute and chronic infection.
Arch Virol. 2005 May;150(5):883-98. Epub 2005 Jan 19.
PMID: 15662481 [PubMed - indexed for MEDLINE]

16: Shen D, Lu H, Li M, He L, Shang D, Ma X. Related Articles, Links

[Cloning and sequencing of cDNA of E2/NS1 gene of hepatitis C virus]
Zhonghua Shi Yan He Lin Chuang Bing Du Xue Za Zhi. 1997 Sep;11(3):227-31. Chinese.
PMID: 15617335 [PubMed - in process]

17: Nakayama H, Sugai Y, Ikeya S, Inoue J, Nishizawa T, Okamoto H. Related Articles, Links

Molecular investigation of interspousal transmission of hepatitis C virus in two Japanese patients who acquired acute hepatitis C after 40 or 42 years of marriage.
J Med Virol. 2005 Feb;75(2):258-66.
PMID: 15602741 [PubMed - indexed for MEDLINE]

18: Saito T, Watanabe H, Shao L, Okumoto K, Hattori E, Sanjo M, Misawa K, Suzuki A, Takeda T, Sugahara K, Ito JI, Saito K, Togashi H, Kawata S. Related Articles, Links

Transmission of hepatitis C virus quasispecies between human adults.
Hepatol Res. 2004 Oct;30(2):57-62.
PMID: 15519268 [PubMed - as supplied by publisher]

19: Spada E, Sagliocca L, Sourdis J, Garbuglia AR, Poggi V, De Fusco C, Mele A. Related Articles, Links

Use of the minimum spanning tree model for molecular epidemiological investigation of a nosocomial outbreak of hepatitis C virus infection.
J Clin Microbiol. 2004 Sep;42(9):4230-6.
PMID: 15365016 [PubMed - indexed for MEDLINE]

20: Liu Z, Netski DM, Mao Q, Laeyendecker O, Ticehurst JR, Wang XH, Thomas DL, Ray SC. Related Articles, Links

Accurate representation of the hepatitis C virus quasispecies in 5.2-kilobase amplicons.
J Clin Microbiol. 2004 Sep;42(9):4223-9.
PMID: 15365015 [PubMed - indexed for MEDLINE]

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Dec 6 2005 04:49:05

1: Antiviral Res. 2001 Nov;52(2):153-9. Related Articles, Links

ELSEVIER FULL-TEXT ARTICLE

Hypervariable region 1 of hepatitis C virus: immunological decoy or biologically relevant domain?

Mondelli MU, Cerino A, Segagni L, Meola A, Cividini A, Silini E, Nicosia A.

Laboratori di Ricerca, Area Infettivologica and Istituto di Clinica delle Malattie Infettive, IRCCS Policlinico San Matteo, University of Pavia, Via Taramelli 5, 27100 Pavia, Italy. m.mondelli@smatteo.pv.it

The hypervariable region 1 (HVR1) of the E2 protein of hepatitis C virus (HCV) is highly heterogeneous and is responsible for significant inter- and intra-individual variation of the infecting virus, which may represent an important pathogenetic mechanism leading to escape and persistent infection. Moreover, a binding site for neutralizing antibodies (Ab) has been allegedly identified in this region. Prospective studies of serological responses to synthetic oligopeptides derived from HVR1 sequences of patients with acute and chronic HCV infection showed extensive serological cross-reactivity for unrelated HVR1 peptides in the majority of the patients. A significant correlation was found between HVR1 sequence variation, and intensity, and cross-reactivity of humoral immune responses providing strong evidence in support of the contention that HCV variant selection is driven by the host immune pressure. Monoclonal Ab (mAb) generated following immunization of mice with peptides derived from natural HVR1 sequences also showed cross-reactivity for several HVR1 sequences attesting to the existence of conserved amino acid motifs among different variants. These findings suggest that it is possible to induce a broadly cross-reactive immune response to HVR1 and that this mechanism can be used to generate protective immunity for a large repertoire of HCV variants.

Publication Types:
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